

# SAFETY DATA SHEET

Silica reagent – Color reagent

Version 1.0 Revision 1  
 Revision Date: 24/08/2021  
 Page 1 of 8

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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### 1.1 Product Details

**Product name** : Silica reagent – Color reagent  
**Trade name** : Silica reagent – Color reagent  
**Chemical name** : Molybdate solution  
**Molecular weight** : Not applicable  
**Chemical family** : Not applicable  
**Manufacturer's code** : CD04-600197  
**Identified uses** : Laboratory chemicals, silica reagents

### 1.2 Company Identification

**Manufacturer's name** : Centronics Sdn Bhd  
**Distributor's name & address** : Centronics Sdn Bhd  
 Centronics Systems & Services Sdn Bhd  
 No. 23, Jln Sungai Jerluh 32/196  
 Seksyen 32, Bukit Kemuning  
 40460 Shah Alam, SEL  
**Emergency tel. no.** : 603-5524 2568  
**Fax. no.** : 603-5131 5668

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## SECTION 2: HAZARDS IDENTIFICATION

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### 2.1 Classification of the Substance or Mixture

Not a hazardous substance or mixture according to Classification (GHS-US)

### 2.2 Label Elements

The product does not need to be labeled in accordance with (GHS-US) Labeling

### 2.3 Other Hazards

Exposure may aggravate those with pre-existing eye, skin or respiratory conditions.

### 2.4 Unknown Acute Toxicity (GHS-US)

No data available

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### Mixtures

Chemical Names	CAS #	Percentage (%)	Classification (GHS-US)
Molybdate (Mo2O72-), diammonium	27546-07-2	7	Not classified
Water	7732-18-5	93	Not classified

# SAFETY DATA SHEET

Silica reagent – Color reagent

Version 1.0 Revision 1  
 Revision Date: 24/08/2021  
 Page 2 of 8

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

<b>General</b>	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).
<b>Inhalation</b>	Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
<b>Eyes</b>	Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if redness, pain, or irritation occurs.
<b>Skin</b>	Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

<b>General</b>	Not expected to present a significant hazard under anticipated conditions of normal use. May aggravate existing eye, skin, or respiratory conditions.
<b>Inhalation</b>	May cause respiratory irritation.
<b>Skin Contact</b>	May cause skin irritation.
<b>Eye Contact</b>	May cause eye irritation.
<b>Ingestion</b>	Ingestion may be harmful or have adverse effects.
<b>Chronic Symptoms</b>	None expected under normal conditions of use.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

<b>Suitable Extinguishing Media</b>	As appropriate for surrounding fire.
<b>Unsuitable Extinguishing Media</b>	Do not use a heavy water stream. Use of heavy water stream may spread fire.

### 5.2. Special Hazards Arising from the Substance or Mixture

<b>Fire Hazard</b>	Not flammable.
<b>Explosion Hazard</b>	Product is not explosive.
<b>Reactivity</b>	Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Fire-fighters

<b>Precautionary Measures Fire</b>	Exercise caution when fighting any chemical fire.
<b>Firefighting Instructions</b>	Use water spray or fog for cooling exposed containers.
<b>Protection During Firefighting</b>	Do not enter fire area without proper protective equipment, including respiratory protection.
<b>Hazardous Combustion Products</b>	Ammonia. Nitrous fumes/gas. Molybdenum oxides.
<b>Reference to Other Sections</b>	

# SAFETY DATA SHEET

Silica reagent – Color reagent

Version 1.0 Revision 1  
 Revision Date: 24/08/2021  
 Page 3 of 8

Refer to section 9 for flammability properties.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures** Avoid all contact with skin, eyes or clothing. Avoid breathing vapor, mist, spray.

#### 6.1.1 For Non-Emergency Personnel

**Protective Equipment** Use appropriate personal protection equipment (PPE).  
**Emergency Procedures** Evacuate unnecessary personnel.

#### 6.1.2 For Emergency Personnel

**Protective Equipment** Equip cleanup crew with proper protection.  
**Emergency Procedures** Ventilate area.

### 6.2 Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3 Methods and Material for Containment and Cleaning Up

**For Containment** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4 Reference to Other Sections

See Heading 8. Exposure controls and personal protection. Concerning disposal elimination after cleaning, see item 13.

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## SECTION 7: HANDLING AND STORAGE

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### 7.1. Precautions for Safe Handling

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures** Comply with applicable regulations.  
**Storage Conditions** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures, and incompatible materials.

**Incompatible Materials** Strong acids. Strong oxidizers. Strong bases. Potassium chlorate. Nitrite Salts.

### 7.3 Specific End Use(s)

# SAFETY DATA SHEET

Silica reagent – Color reagent

Version 1.0 Revision 1  
 Revision Date: 24/08/2021  
 Page 4 of 8

No use specified.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Control Parameters

#### Exposure

Chemicals Name	ACGIH	NIOSH	OSHA
Molybdate (Mo <sub>2</sub> O <sub>7</sub> <sup>2-</sup> ), diammonium	No established limit	No established limit	No established limit
Water	None listed	None listed	None listed

### 8.2 Exposure Controls

#### Appropriate Engineering Controls

Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

#### Eye/face protection

Chemical goggles or safety glasses

#### Hand protection

Wear chemically resistant protective gloves

#### Skin and Body Protection

Wear suitable protective clothing

#### Materials for Protective Clothing

Chemically resistant materials and fabrics

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

#### Environmental Exposure Controls

In case of insufficient ventilation, wear suitable respiratory equipment

#### Consumer Exposure Controls

Do not eat, drink or smoke during use

# SAFETY DATA SHEET

Silica reagent – Color reagent

Version 1.0 Revision 1  
 Revision Date: 24/08/2021  
 Page 5 of 8

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Form: clear, liquid
	Colour: colourless
<b>Odour</b>	: Odourless
<b>Odour Threshold</b>	: No data available
<b>Solubility</b>	: Soluble in water
<b>pH</b>	: 10
<b>Evaporation Rate</b>	: No data available
<b>Melting Point</b>	: No data available
<b>Freezing Point</b>	: No data available
<b>Boiling Point</b>	: ~100 °C (212 °F)
<b>Flash Point</b>	: Not combustible
<b>Auto-ignition temperature</b>	: No data available
<b>Decomposition Temperature</b>	: No data available
<b>Flammability limit (solid, gas)</b>	: No data available
<b>Lower Flammable Limit</b>	: No data available
<b>Upper Flammable Limit</b>	: No data available
<b>Vapour Pressure (mm of Hg at 25°C )</b>	: No data available
<b>Relative Density</b>	: No data available
<b>Specific Gravity</b>	: No data available
<b>Partition Coefficient: N-Octanol/Water</b>	: No data available
<b>Viscosity</b>	: No data available
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	: No data available
<b>Explosion Data – Sensitivity to Static Discharg</b>	: Not expected to present an explosion hazard due to mechanical impact.
	: Not expected to present an explosion hazard due to static discharge.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

### 10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid

Direct sunlight. Extremely high or low temperatures. Incompatible materials.

### 10.5. Incompatible Materials

Strong acids. Strong bases. Strong oxidizers. Potassium chlorate. Nitrite Salts.

# SAFETY DATA SHEET

Silica reagent – Color reagent

Version 1.0 Revision 1  
 Revision Date: 24/08/2021  
 Page 6 of 8

## 10.6. Hazardous Decomposition Products

Thermal decomposition generates: Ammonia. Nitrous fumes. Molybdenum oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects – Product

<b>Acute Toxicity</b>	Not classified
<b>LD50 and LC50 Data</b>	Not available
<b>Skin Corrosin/Irritation</b>	Not classified
<b>Serious Eye Damage/Irritation</b>	Not classified
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Teratogenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Not classified
<b>Reproductive Toxicity</b>	Not classified
<b>Specific Target Organ Toxicity (Single Exposure)</b>	Not classified
<b>Aspiration Hazard</b>	Not classified
<b>Symptoms/Injuries After Inhalation</b>	May cause respiratory irritation
<b>Symptoms/Injuries After Skin Contact</b>	May cause skin irritation
<b>Symptoms/Injuries After Eye Contact</b>	May cause eye irritation
<b>Symptoms/Injuries After Ingestion</b>	Ingestion may be harmful or have adverse effects
<b>Chronic Symptoms</b>	None expected under normal conditions of use

### 11.2 Information on Toxicological Effects – Ingredient(s)

#### LD<sub>50</sub> and LC<sub>50</sub> Data

Molybdate (Mo2O72-), diammonium (27546-07-2)	
LD <sub>50</sub> Oral Rat	> 2000 mg/kg
LD <sub>50</sub> Dermal Rat	> 2000 mg/kg
LC <sub>50</sub> Inhalation Rat	> 3.92 mg/l/4h

## SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity</b>	No additional information available
<b>Persistence and Degradability</b>	Not available
<b>Bioaccumulative Potential</b>	Not available
<b>Mobility in Soil</b>	Not available

### Other Adverse Effects

Other Information: Avoid release to the environment.

# SAFETY DATA SHEET

Silica reagent – Color reagent

Version 1.0 Revision 1  
 Revision Date: 24/08/2021  
 Page 7 of 8

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste Disposal Recommendations

Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

## SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT	Not regulated for transport
In Accordance with IMDG	Not regulated for transport
In Accordance with IATA	Not regulated for transport
In Accordance with TDG	Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

Water (7732-18-5)	Listed on the US TSCA (Toxic Substances Control Act) inventory
Molybdate ( $\text{Mo}_2\text{O}_7$ ) <sup>2-</sup> Diammonium (27546-07-2)	Listed on the US TSCA (Toxic Substances Control Act) inventory

### 15.2 US State Regulations

Neither this product nor its chemical components appear on any US state lists.

### 15.3 Canadian Regulations

Color Reagent	Uncontrolled product according to WHMIS classification criteria
Water (7732-18-5)	Listed on the Canadian DSL (Domestic Substances List), Uncontrolled product according to WHMIS classification criteria
Molybdate ( $\text{Mo}_2\text{O}_7$ ) <sup>2-</sup> Diammonium (27546-07-2)	Listed on the Canadian DSL (Domestic Substances List), Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by CPR.

# SAFETY DATA SHEET

Silica reagent – Color reagent

Version 1.0 Revision 1  
Revision Date: 24/08/2021  
Page 8 of 8

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## SECTION 16: OTHER INFORMATION

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### Other Information

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

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Revision of the SDS: Revision 1

Revision Summary: Review of content

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